

# Master of Computer Applications

## LAB RECORD

***Course Name: 20MCA133 WEB PROGRAMMING LAB***

NAME.....

REG. NO..... SEMESTER.....

MONTH & YEAR.....

## **Lab Cycle 3**

### **CO4: Do Client-side & Server-side scripting**

#### **Program # 13**

Build a PHP code to store name of students in an array and display it using print\_r function. Sort and display the same using asort & arsort functions.

#### **PROGRAM CODE:**

```
<!DOCTYPE html>
<html>
<head>
<title>ArraySort</title>
<style> body{
max-width: 650px; margin: auto; border-style: outset;
}
</style>
</head>
<body><br>
<center><h2>Arrays Sort</h2></center><br>
<?php
$students = array("Abhimanue", "Jo", "Basil", "Subin"); echo "<h3>Indexed array: </h3>";
print_r($students); sort($students);
echo "<br><h4>Sorted array (sort): </h4>"; print_r($students);
rsort($students);
echo "<br><h4>Sorted array (rsort): </h4>"; print_r($students);
$age = array("Abhimanue"=>"22", "Jo"=>"24", "Basil"=>"20", "Subin"=>"25"); echo
"<h3><br>Associated array: </h3>";
print_r($age); asort($age);
echo "<br><h4>Sorted array (asort): </h4>"; print_r($age);
arsort($age);
echo "<br><h4>Sorted array (arsort): </h4>"; print_r($age);

ksort($age);
echo "<br><h4>Sorted array (ksort): </h4>";
print_r($age); krsort($age);
echo "<br><h4>Sorted array (krsort): </h4>"; print_r($age);
?>
<br><br><br>
</body>
</html>
```

## OUTPUT:

### Arrays Sort

#### Indexed array:

Array ( [0] => Abhimanue [1] => Jo [2] => Basil [3] => Subin )

#### Sorted array (sort):

Array ( [0] => Abhimanue [1] => Basil [2] => Jo [3] => Subin )

#### Sorted array (rsort):

Array ( [0] => Subin [1] => Jo [2] => Basil [3] => Abhimanue )

#### Associated array:

Array ( [Abhimanue] => 22 [Jo] => 24 [Basil] => 20 [Subin] => 25 )

#### Sorted array (asort):

Array ( [Basil] => 20 [Abhimanue] => 22 [Jo] => 24 [Subin] => 25 )

#### Sorted array (arsort):

Array ( [Subin] => 25 [Jo] => 24 [Abhimanue] => 22 [Basil] => 20 )

#### Sorted array (ksort):

Array ( [Abhimanue] => 22 [Basil] => 20 [Jo] => 24 [Subin] => 25 )

#### Sorted array (krsort):

Array ( [Subin] => 25 [Jo] => 24 [Basil] => 20 [Abhimanue] => 22 )

## **Program # 14**

Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

### **PROGRAM CODE:**

```
<?php
$indian_cricket_players = array("Virat Kohli", "MS Dhoni", "Rohit Sharma", "Hardik Pandya",
"Mohammed Shami", "Yuzvendra Chahal", "Shikhar Dhawan", "KL Rahul", "Bhuvneshwar
Kumar", "Jasprit Bumrah");
?>
<!DOCTYPE html>
<html>
<head>
<title>Indian Cricket Players</title>
<style>
body {
    max-width: 750px;
    margin: auto;
    border-style: outset;
}

table {
    border-collapse: collapse;
    width: 100%;
    margin-top: 20px;
    background-color: powderblue;
}

th, td {
    border: 1px solid black;
    padding: 8px;
    text-align: center;
}

th {
    background-color: #000000;
    color: white;
}
</style>
</head>
<body>
<center><h2>List of Indian Cricket Players</h2></center>
<table>
<tr>
```

## 20MCA133 Web Programming Lab Record

```
<th>Name</th>
</tr>
<?php
    foreach($indian_cricket_players as $player) {
        echo "<tr><td>$player</td></tr>";
    }
?>
</table>
</body>
</html>
```

**OUTPUT:**

List of Indian Cricket Players	
Name	
Virat Kohli	
MS Dhoni	
Rohit Sharma	
Hardik Pandya	
Mohammed Shami	
Yuzvendra Chahal	
Shikhar Dhawan	
KL Rahul	
Bhuvneshwar Kumar	
jasprit bumrah	

## **Program # 15**

Design a registration form in HTML, and do necessary validations using PHP

### **PROGRAM CODE:**

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Registration Form</title>
<style>
#container {
width: 602px;
height: 600px;
margin: 8px auto;
border-radius: 15px;
padding: 5px;
border: 5px solid black;
font-family: 'Times New Roman', Times, serif;
background-color: powderblue;
}

input[type="text"],
input[type="email"],
input[type="password"] {
margin-right: 5px;
width: 98%;
height: 40px;
padding: 2px 0px 2px 4px;
border-radius: 6px;
background: white;
border: 2px solid rgba(0, 0, 0, 1);
color: black;
}

input[type="submit"] {
width: 17%;
height: 30px;
margin-top: 14px;
border-radius: 6px;
font: 14px bold;
color: white;
background: black;
```

```

text-transform: uppercase;
border: 3px solid #000;
padding: 3px 10px;
}

input[type="submit"]:hover {
  opacity: 2;
  cursor: pointer;
  background-color: green;
}

</style>
</head>
<body>
<div id="container">
  <h2><center><b>Registration Form</b></center></h2>
  <form action="valid.php" method="post">
    <b> <label for="username">Username:</label>
    <input type="text" id="username" name="username"><br><br>

    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required><br><br>

    <label for="pno">Phone Number:</label><br>
    <input type="text" id="pno" name="pno" pattern="[0-9]{10}"><br><br>

    <label for="password">Password:</label>
    <input type="password" id="password" name="password" required><br><br>

    <label for="confirm_password">Confirm Password:</label>
    <input type="password" id="confirm_password" name="confirm_password"
required><br><br>
    </b>

    <center><input type="submit" value="REGISTER" style="background-color: lightgreen; color:
black;"></center>

  </form>
</div>

</body>
</html>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $username = clean_input($_POST["username"]);
  $email = clean_input($_POST["email"]);
  $pno= clean_input($_POST["pno"]);
  $password = clean_input($_POST["password"]);
  $confirm_password = clean_input($_POST["confirm_password"]);

```



## 20MCA133 Web Programming Lab Record

```
if (empty($username) || empty($email) || empty($password) || empty($pno) ||
empty($confirm_password)) {
    echo '<script>alert("All fields are required.")</script>';
} elseif ($password !== $confirm_password || strlen($password) < 8) {
    echo '<script>alert("Passwords do not match or password must be at least 8
characters.")</script>';
} else {
    echo '<script>alert("Registration successful!")</script>';
}
}

function clean_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}
?>
```

**OUTPUT:**

---

### Registration Form

**Username:**

**Email:**

**Phone Number:**

**Password:**

**Confirm Password:**

REGISTER

---

---

localhost says  
Passwords do not match or password must be at least 8 characters.

OK

**Username:**

**Email:**

**Phone Number:**

**Password:**

**Confirm Password:**

REGISTER

## **Program # 16**

Compose Electricity bill from user input based on a given tariff using PHP.

### **PROGRAM CODE:**

```
<!DOCTYPE html>

<head>

<title>Electricity Bill</title>

<style>

body{

font-family: Arial, sans-serif;

}

input[type="submit"] {

padding: 8px;

margin-bottom: 30px;

border-radius: 3px;

border: 1px solid #ccc;

width: 40%;

background-color: #174d5a;

color: white;

cursor: pointer;

}

.result {

margin-top: 20px;

padding: 10px;

border: 1px solid #ddd;

border-radius: 3px;

background-color: #f9f9f9;
```

```

}

</style>

</head>

<?php
$total = $result = $cname = $cnum = $units = "";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $cname = test_input($_POST["cname"]);
    $cnum = test_input($_POST["cnum"]);
    $units = test_input($_POST["units"]);
}

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}

if (isset($_POST['unit_submit'])) {
    $units = $_POST['units'];
    if (!empty($units)) {
        $result = calculate_bill($units);
        $total = 'Amount to be paid : ₹. $result;
        $cname = 'Consumer Name : ' . $cname;
        $cnum = 'Consumer Number : ' . $cnum;
        $units = 'Units Consumed : ' . $units;
    }
}

function calculate_bill($units) {
    $unit_cost_first = 3.50;
    $unit_cost_second = 4.50;
    $unit_cost_third = 5.50;
    $unit_cost_fourth = 6.50;

```

```

if($units <= 50) {
$bill = $units * $unit_cost_first;
}
else if($units > 50 && $units <= 100) {
$temp = 50 * $unit_cost_first;
$remaining_units = $units - 50;
$bill = $temp + ($remaining_units * $unit_cost_second);
}
else if($units > 100 && $units <= 200) {
$temp = (50 * 3.5) + (100 * $unit_cost_second);
$remaining_units = $units - 150;
$bill = $temp + ($remaining_units * $unit_cost_third);
}
else {
$temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third);
$remaining_units = $units - 250;
$bill = $temp + ($remaining_units * $unit_cost_fourth);
}
return number_format((float)$bill, 2, '.', '');
}
?>
<body>
<form action="" method="post" id="quiz-form">
<br><br><br>
<div id="page-wrap">
<table style="border-style:outset" cellspacing="1" cellpadding="10" align="center"
bgcolor="white" width="600">
<tr><td colspan="2" align="center"><h1>Calculate Electricity Bill</h1>
<tr><td>Enter the consumer name :</td><td><input type="text" name="cname"
id="cname"/></td></tr>

```

```

<tr><td>Enter the consumer number :</td><td><input type="number" name="cnum"
id="cnum"/></td></tr>
<tr><td>Enter the units consumed :</td><td><input type="number" name="units"
id="units"/></td></tr>
<tr><td></td></tr>
<tr><td colspan="2" align="center"><input type="submit" name="unit_submit"
id="unit_submit" value="Submit" /></td><td>
<tr><td colspan="2" align="center"><div class="result">
<?php
echo $cname.'<br>';
echo $cnum.'<br>';
echo $units.'<br>';
echo $total;
?>
</div></td></tr>
</div>
</table>
</form>
</body>
</html>

```

**OUTPUT:**

## Calculate Electricity Bill

Enter the consumer name :

Enter the consumer number :

Enter the units consumed :

## Calculate Electricity Bill

Enter the consumer name :

Enter the consumer number :

Enter the units consumed :

Consumer Name : Abhimanue  
Consumer Number : 2584  
Units Consumed : 100  
Amount to be paid : ₹400.00



## **Lab Cycle 4**

**CO3: Design front end web page and connect to the back-end databases.**

### **Program # 17**

Develop a PHP program to connect to a database and retrieve data from a table and

#### **PROGRAM CODE:**

```
<!DOCTYPE HTML>

<html>

<head>

<title>Students details</title>

<style>

table{

font-family: Arial, sans-serif;

border-collapse: collapse;

}

th{

background-color: black;

color:white;

}

</style>

</head>

<body>

<center>

<?php

$conn = mysqli_connect("localhost", "root", "", "college");

if (!$conn) {

echo "Connection Failed" . "<br>";
```

```

    } else {

        echo "Connected successfully" . "<br>";

    }

    $sql = "INSERT INTO student (Rollno, Name, Age, course_id) VALUES (101, 'Abhimanue', 21,
    111),(102,'Jose',22,112),(103,'Hari', 21, 113),(104,'Jo',22,114)";

    if (mysqli_query($conn, $sql)) {

        echo "Inserted Successfully" . "<br>";

    } else {

        echo "Insertion Failed" . "<br>";

    }

    $select_query = "SELECT * FROM student";

    $result = mysqli_query($conn, $select_query);

    if (mysqli_num_rows($result) > 0){

        echo "<center><h1 style='color: #34568B'>Student List</h1></center>";

        echo "<center><table border='1' cellpadding='10' align='center' bgcolor='white'>

        <tr>

        <th>Roll No</th>

        <th>Name</th>

        <th>Age</th>

        <th>Course ID</th>

        </tr>";

        while ($row = mysqli_fetch_assoc($result)) {

            echo "<tr>";

            echo "<td>" . $row['Rollno'] . "</td>";

            echo "<td>" . $row['Name'] . "</td>";

            echo "<td>" . $row['Age'] . "</td>";

            echo "<td>" . $row['course_id'] . "</td>";

            echo "</tr>";

        }

        echo "</table></center>";

    } else {

```

## 20MCA133 Web Programming Lab Record

```
echo "No records found in the student table";
```

```
}
```

```
mysqli_close($conn);
```

```
?>
```

```
</center>
```

```
</body>
```

```
</html>
```

**OUTPUT:**

Connected successfully  
Inserted Successfully

## Student List

Roll No	Name	Age	Course ID
101	Abhimanue	21	111
102	Jose	22	112
103	Hari	21	113
104	Jo	22	114

## **CO5: Develop Web Applications**

### **Program # 16**

Develop an application in PHP and MySQL, to accept book details viz. Book id, title, authors, edition and publisher from an HTML form in a web page and save the records in a database and to search for a book using the author name and display the search results.

#### **PROGRAM CODE:**

```
<!DOCTYPE HTML>
<html>
<head>
<title></title>
<style>
#regform{
background-color: white;
text-align: center;
width: 500px;
height: 800px;
margin:auto;
}
body{
font-family: Arial, sans-serif;
background-image: url('books5.jpg');
background-repeat: no-repeat;
background-attachment: fixed;
background-size: cover;
}
th{
background-color: #0766ad;
color:white;
}
.required{
color:red;
}
input[type=submit] {
background-color: #0766ad;
color: white;
```

```

padding: 14px 20px;
margin: 8px 0;
border: none;
cursor: pointer;
width: 100%;
}
</style>
</head>
<script>
function validateForm() {
var Bookid = document.forms["myForm"]["bookid"].value;
var Title = document.forms["myForm"]["title"].value;
var Author = document.forms["myForm"]["author"].value;
var Edition = document.forms["myForm"]["edition"].value;
var Publisher = document.forms["myForm"]["publisher"].value;
if (Bookid === "" || Title === "" || Title === "" || Edition === "" || Publisher === "") {
alert("All fields must be filled out");
return false;
}
return true;
}
</script>
<body>
<center>
<div id="regform">
<br>
<h2 style='color: #485551'> Book Information</h2>
<h4>Add the details of the book</h4>
<form name="myForm" action="books.php" method="post" onsubmit="return
validateForm()">
<table border='0' cellspacing='1' cellpadding='6' align='center' bgcolor='white'>
<tr><td>Book ID<span class="required">*</span>:</td><td><input type="number"
name="bookid" required></td></tr>
<tr><td>Title<span class="required">*</span>:</td><td><input type="text"
name="title" required pattern="^[A-Z]+[a-zA-Z ]*$" title="Name Allows Only
Alphabets,Spaces and First Letter Must Be Capital Letter"></td></tr>
<tr><td>Author<span class="required">*</span>:</td><td><input type="text"
name="author" required pattern="^[A-Z]+[a-zA-Z ]*$" title="Name Allows Only
Alphabets,Spaces and First Letter Must Be Capital Letter"></td></tr>
<tr><td>Edition<span class="required">*</span>:</td><td><input type="text"
name="edition" required></td></tr>
<tr><td>Publisher<span class="required">*</span>:</td><td><input type="text"
name="publisher" required pattern="^[A-Z]+[a-zA-Z ]*$" title="Name Allows Only
Alphabets,Spaces and First Letter Must Be Capital Letter"></td></tr>
<tr><td colspan="2" align="center"><input type="submit" name="submit"
value="Submit"></td></tr>
</table></form>

```

## 20MCA133 Web Programming Lab Record

```
<h4>Do you want to search books?</h4>
<form name="searchForm" action="books.php" method="post">
<table border='0' cellspacing='1' cellpadding='10' align='center' bgcolor='white'>
<tr><td>Author:</td><td><input type="text" name="author" required></td><td
align="center"><input type="submit" name="search" value="Search"></td></tr>
</table></form>
<?php
$conn=mysqli_connect("localhost","root","","book");
echo "<center>";
if (!$conn)
{
echo "Error in connection!";
}
else{
echo "Connected successfully!";
}
if(isset($_POST['submit']))
{
$Bookid=$_POST['bookid'];
$title=$_POST['title'];
$Author=$_POST['author'];
$Edition=$_POST['edition'];
$Publisher=$_POST['publisher'];
$sql="INSERT INTO bdetails (BookId,title,Author,edition,Publisher)
values('$Bookid','$title','$Author','$Edition','$Publisher')";
if(mysqli_query($conn, $sql))
{
echo "<br>Inserted record successfully";
}
else{
echo "<br>Error in record insertion";
}
echo "<center><h3 style='color: #485551'>Book Details</h3></center>";
echo "<center><table border='1' cellspacing='1' cellpadding='10' align='center'
bgcolor='white'>
<tr>
<th>BookId</th>
<th>Title</th>
<th>Author</th>
<th>Edition</th>
<th>Publisher</th>
</tr>
<tr>
<td>$Bookid</td>
<td>$title</td>
<td>$Author</td>
<td>$Edition</td>
```

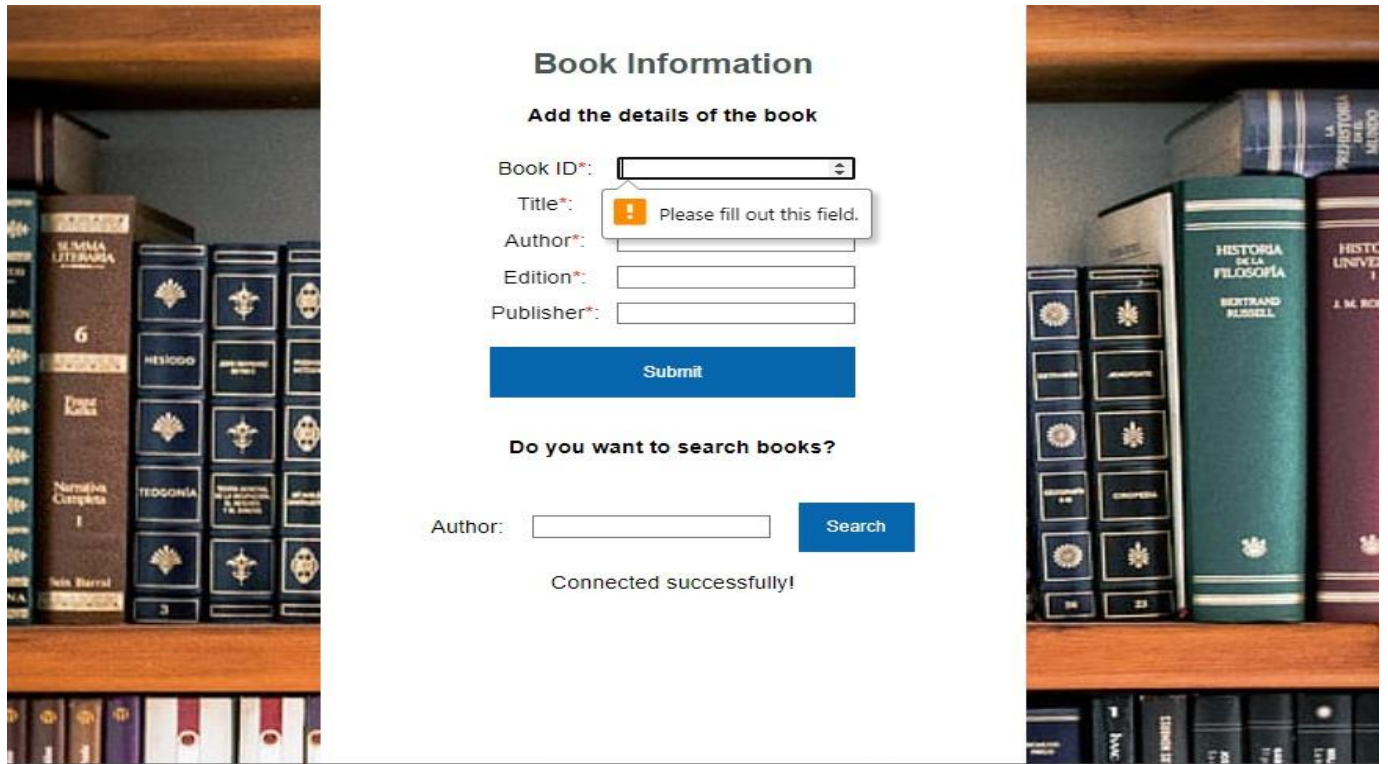
```

<td>$Publisher</td>
</tr>";
}
if(isset($_POST['search']))
{
$Author=$_POST['author'];
$sql="select * from bdetails where Author='$Author'";
$res= mysqli_query($conn, $sql);
$totRows = mysqli_num_rows($res);
if($totRows==0)
{
echo "<br><br>No records found!";
}
else{
echo "<center><h3 style='color: #8B4513'>Search Result</h3></center>";
echo "<center><table border='1' cellpadding='6' cellspacing='1' align='center'
bgcolor='white'>
<tr>
<th>BookId</th>
<th>Title</th>
<th>Author</th>
<th>Edition</th>
<th>Publisher</th>
</tr>";
while($row = mysqli_fetch_assoc($res))
{
echo "<tr>";
echo "<td>".$row["BookId"]."</td>";
echo "<td>".$row["Title"]."</td>";
echo "<td>".$row["Author"]."</td>";
echo "<td>".$row["Edition"]."</td>";
echo "<td>".$row["Publisher"]."</td>";
echo "</tr>";
}
echo "</table></center>";
}}
echo "</center>";
mysqli_close($conn);
?>
</center>
<br>
</div>
</body>
</html>

```



OUTPUT:



**Book Information**

Add the details of the book

Book ID\*:

Title\*:  Please fill out this field.

Author\*:

Edition\*:

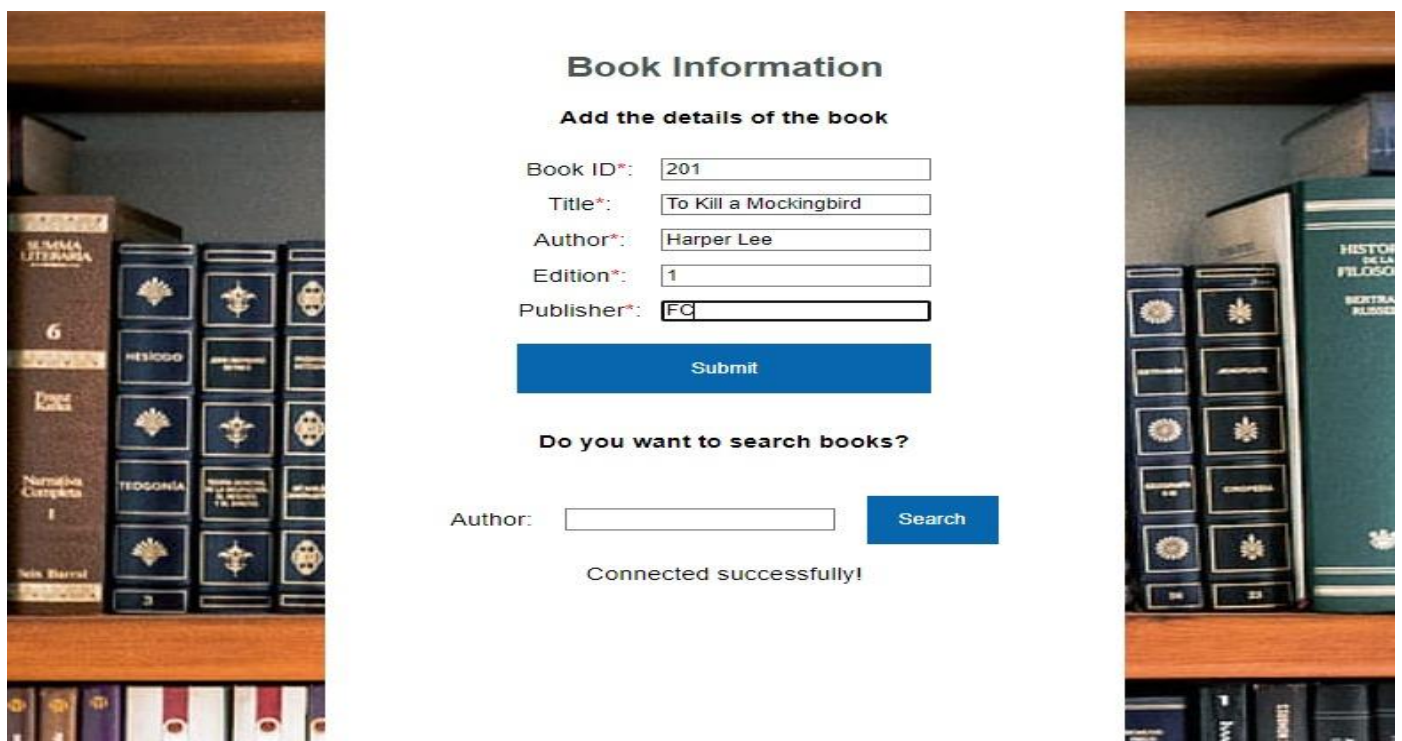
Publisher\*:

**Submit**

Do you want to search books?

Author:  **Search**

Connected successfully!



**Book Information**

Add the details of the book

Book ID\*:

Title\*:

Author\*:

Edition\*:

Publisher\*:

**Submit**

Do you want to search books?

Author:  **Search**

Connected successfully!

**Add the details of the book**

Book ID\*:

Title\*:

Author\*:

Edition\*:

Publisher\*:

**Submit**

**Do you want to search books?**

Author:  **Search**

Connected successfully!  
Inserted record successfully

**Book Details**

BookId	Title	Author	Edition	Publisher
201	To Kill a Mockingbird	Harper Lee	1	FC

**Book Information**

**Add the details of the book**

Book ID\*:

Title\*:

Author\*:

Edition\*:

Publisher\*:

**Submit**

**Do you want to search books?**

Author:  **Search**

Connected successfully!

**Search Result**

BookId	Title	Author	Edition	Publisher
21	Wings of Fire	Abdul kalam	2	DC

